

**To:** Williams, Laura[williams.laura@epa.gov]  
**Cc:** West, John[John.West@WestonSolutions.com]; Adamczyk, Megan[Megan.Adamczyk@WestonSolutions.com]; Robinson, David[David.Robinson@WestonSolutions.com]  
**From:** Christner, Jan  
**Sent:** Thur 8/20/2015 4:35:32 PM  
**Subject:** RE: Investigation information request  
Flow Estimate from Gold King and 4 Mines-Draft.docx  
Summary of Historic Flow Data from 4 Mines.docx

Laura,

Please see the two attached documents showing summarized flow data. I will send the flow data collected yesterday at these mines and the nearby Silver Ledge Mine as soon as I get it.

There are some additional mines and seeps that discharge to Cement Creek upstream from Gladstone, but these 4 are thought to be the major contributors (both flow and contaminant load) to Cement Creek upstream of the confluence with South Fork just south of Gladstone. I had been asked to compile the data from the 4 mines cited in the documents I was able to put this information together quickly.

There are many additional mines that discharge to Cement Creek starting at Gladstone and going south. The Silver Ledge Mine discharges to South Fork that enters Cement Creek south of the American Tunnel. Several tributaries carry mine discharge to Cement Creek downstream of Gladstone. If that information is needed, please let me know, but it will take a while to put it together.

The Animas River Viewer shows EPA sample stations in the vicinity of the mine.  
<https://r8.ercloud.org/Animas/>

Please let me know if you need additional information.

Jan

Jan Christner

Weston Solutions, Inc.

505-269-1925 (cell)

**From:** Williams, Laura [mailto:[williams.laura@epa.gov](mailto:williams.laura@epa.gov)]  
**Sent:** Thursday, August 20, 2015 9:29 AM  
**To:** Christner, Jan  
**Cc:** West, John; Adamczyk, Megan  
**Subject:** Re: Investigation information request

Jan, I will take any and everything you have regarding flows and water levels for mines in the Gold King area ( I.e., impacting Cement Creek). Obviously short term need. Thank you, thank you - lw

Sent from my iPhone

On Aug 20, 2015, at 9:14 AM, Christner, Jan <[Jan.Christner@WestonSolutions.com](mailto:Jan.Christner@WestonSolutions.com)> wrote:

Laura,

I have:

- historic (2009) flow and chemistry data from all three mines (I will send if you are interested)
- daily flows and pHs from Gold King since the blowout (attached)
- analytical results of samples collected from the Gold King Mine discharge and pond outflow (I will send if you are interested)

Flow measurements from the nearby mines, including Red and Bonita, Mogul, Silver Ledge, and American tunnel, started yesterday. I have rough numbers but our field person was going to send the final numbers today. He is at the mine site and not accessible right now. I will send the final flow values for the additional mines as soon as they are available.

Please let me know if you would like additional information.

Jan

**From:** West, John  
**Sent:** Thursday, August 20, 2015 8:55 AM  
**To:** Christner, Jan; Williams, Laura ([williams.laura@epa.gov](mailto:williams.laura@epa.gov))  
**Cc:** Adamczyk, Megan  
**Subject:** Investigation information request

Morning Jan,

Laura Williams stopped by this morning looking for flow information for the American Tunnel, Red and Bonita, and Gold King mines. She was told by Steve Way that you have been gathering that information. I am including both of you on this email so you can get back to Laura and let her know what you have. If necessary you can channel that info through Megan. Thanks everyone!

John West, PE CHMM PMP | Project Engineer | US EPA START Contractor |  
Weston Solutions, Inc. | 1435 Garrison Street, Suite 100, Lakewood, CO 80215 |  
John.West@westonsolutions.com | O: 303-729-6148 | M: 303-748-3304 |

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<Gold King Adit - Flowrate and pH.xlsx>

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